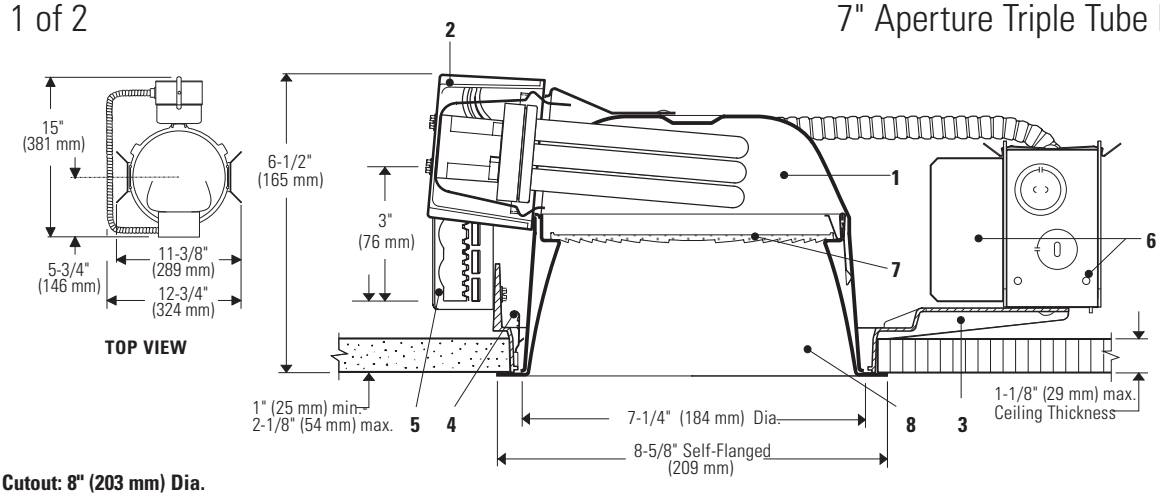
Calculite® CFL Lensed Downlight 8097

7" Aperture Triple Tube Horizontal Lamp



Ceiling Cutout: 8" (203 mm) Dia.

Reflector Trim

(Lens:)	Fresnel	Clear	Prismatic
Clear Cone, White Flange	**8097FCLW**	**8097CCLW**	**8097PCLW**
Clear Cone, Polished Flange	**8097FCLP**	**8097CCLP**	**8097PCLP**
White Cone, White Flange	**8097FWHW**	**8097CWHW**	**8097PWHW**

	Opal Diffuser
Clear Cone, White Flange	**8097DCLW**
Clear Cone, Polish Flange	**8097DCLP**
White Cone, White Flange	**8097DWHW**

Frame-In Kit

S7126BU 7" aperture, 1 lamp 26W Triple Tube CFL (120/277V) 4-Pin (Amalgam)
S7132BU 7" aperture, 1 lamp 26/32W Triple Tube CFL (120/277V) 4-Pin (Amalgam)
S7142BU 7" aperture, 1 lamp 26/32/42W Triple Tube CFL (120/277V) 4-Pin (Amalgam)

Dimming Options:

S7132B ☐ or **S7142B** ☐
CU3 Lightolier PowerSpec 3% Dimming (120/277V)
J1LD3 Lutron 3% Dimming (120V) **J2LD3** Lutron 3% Dimming (277V)
JUM7 Mark 7 Dimming (120/277V) **J1MX** Mark 10 Dimming (120V)
J2MX Mark 10 Dimming (277V)
Other dimming product available, please consult factory

Remodeler Frame-In Kits

7126BURM 7" aperture, 1 lamp 26W Triple Tube CFL (120/277V) 4-Pin (Amalgam))
7132BURM 7" aperture, 1 lamp 26/32W Triple Tube CFL (120/277V) 4-Pin (Amalgam)
7142BURM 7" aperture, 1 lamp 26/32/42W Triple Tube CFL (120/277V) 4-Pin (Amalgam)

Features

1. **Reflector:** 16 ga. Die-formed aluminum, Anobrite® finish.
2. **Socket Cup:** Snaps onto reflector to assure consistently correct optical alignment without tools.
4. **Retaining Springs:** Precision-tooled steel friction springs secure reflector to mounting frame for quick, tool-less installation.
5. **Mounting Brackets:** 16 ga. steel. Adjust from inside of fixture. Use 3/4" or 1 1/2" lathing channel, 1/2" EMT, or optional mounting bars.
6. **Ballast/J-Box:** Outboard mounted to reduce heat transfer and maintain lamp efficacy and life. Service from below without tools.
7. **Shielding Media:** Molded acrylic. Available in fresnel lens, clear lens, or opal diffuser. Secured to aperture cone.
8. **Cone:** 16 ga. Alzak® aluminum. Clear Iridescence Free finish or Comfort Clear™ low iridescence finish. Retained by friction springs; no loose parts.

Electrical

Note: For ballast electrical data and latest lamp/ballast compatibility refer to **"Ballast"** specification sheet for complete electrical data.

UL listed for through branch circuit wiring with max of (8) No. 12 AWG, 90° C supply conductors.

Options and Accessories

Comfort Clear™ Finishes[1]		Other Finishes	
Clear	**CCL**	White	**WH**
Diffuse	**CCD**		
Champagne Bronze	**CCZ**		

[1]Specify desired flange
W White, **P** Polished

Emergency	Add suffix **EM***
Chicago Plenum	Add suffix **LC**

Options and Accessories (continued)

Existing/Thk. Ceiling	**FA EC7***
Emergency Ltg. Kit	**FA EM3E***
	FA EM4E*
Fuse (Slow Blow)	Add Suffix **F**

*See Spec. Sheets: FAEC, FAEM

Mounting Bars & Accessories; see Specification Sheet MBA.
Sloped Ceiling Adapters; see Specification Sheet SCA.

Labels

All units are UL listed for wet locations, Opal Diffuser is UL listed for damp locations, I.B.E.W.

Alzak® is a registered trademark of ALCOA.
US Patent Pending.

Job Information **Type:**

Job Name:

Cat. No.:

Lamp(s):

Notes:

631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710
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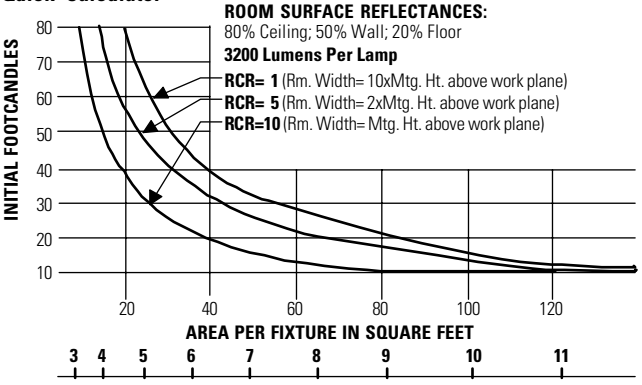
Clear Reflector Cone (CL)

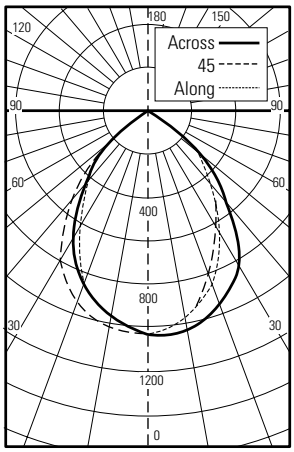
Quick Calculator



This quick calculator chart determines the number and spacing of 1 lt.- 42W PL-T units with Fresnel Lens and Clear Cone for any level of illumination. Conversion factors: Opal diffuser, fc x 0.8; Clear Shielding, fc x 1.0.

Spacing Ratio = 1.2

CERTIFIED TEST REPORT NO. 0066FR
COMPUTED BY LSI PROGRAM **TEST-LITE**
CALCULITE 7 3/16" DIAMETER RECESSED FLUORESCENT LENSED DOWNLIGHT
SEMI-SPECULAR REFLECTOR WITH CLEAR CONE AND FRESNEL LENS
LUMEN RATING = 3200 LMS. 1-42W PL-T LAMP



**** EFFICIENCY = 47.0%** **

	CANDLEPOWER						
ANGLE	ALONG	22.5	45	67.5	ACROSS	LUMENS	
0	1027	1027	1027	1027	1027		
5	1002	994	1006	1022	1037	48	
10	964	942	969	1001	1034		
15	906	851	887	932	995	128	
20	831	738	786	852	937		
25	736	619	692	773	880	167	
30	619	519	603	698	805		
35	508	449	516	590	680	169	
40	420	406	431	469	525		
45	335	349	361	381	413	144	
50	267	310	307	313	322		
55	102	132	129	144	156	70	
60	34	41	47	55	61		
65	4	8	9	12	14	8	
70	0	0	0	0	0		
75	0	0	0	0	0	0	
80	0	0	0	0	0		
85	0	0	0	0	0	0	
90	0	0	0	0	0		

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	719	22.47	47.85
0-40	1081	33.79	71.95
0-60	1490	46.58	99.19
0-90	1502	46.97	100.00
40-90	421	13.17	28.05
60-90	12	.38	.81
90-180	0	.00	.00
0-180	1502	46.97	100.00

Coefficients Of Utilization

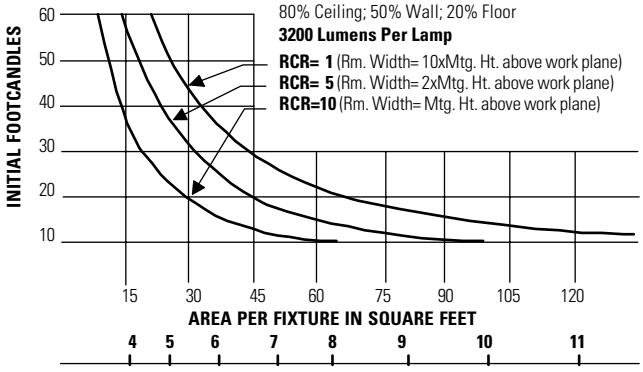
% EFFECTIVE CEILING CAVITY REFLECTANCE

	80			70			50			30			10			0
	% WALL REFLECTANCE															
ROOM CAVITY RATIO	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
1	.52	.51	.49	.51	.50	.49	.49	.48	.47	.47	.46	.46	.46	.45	.44	.44
2	.48	.46	.44	.47	.45	.44	.46	.44	.43	.44	.43	.42	.43	.42	.41	.40
3	.44	.42	.40	.44	.42	.40	.43	.41	.39	.41	.40	.38	.40	.39	.38	.37
4	.41	.38	.36	.41	.38	.36	.40	.37	.36	.39	.37	.35	.38	.36	.35	.34
5	.38	.35	.33	.38	.35	.33	.37	.34	.33	.36	.34	.32	.35	.33	.32	.31
6	.35	.32	.30	.35	.32	.30	.34	.32	.30	.33	.31	.29	.33	.31	.29	.29
7	.32	.29	.27	.32	.29	.27	.31	.29	.27	.31	.28	.27	.30	.28	.26	.26
8	.30	.27	.25	.29	.27	.24	.29	.26	.24	.29	.26	.24	.28	.26	.24	.23
9	.28	.24	.22	.27	.24	.22	.27	.24	.22	.26	.24	.22	.26	.24	.22	.21
10	.25	.22	.20	.25	.22	.20	.25	.22	.20	.24	.22	.20	.24	.22	.20	.19

20% FLOOR CAVITY REFLECTANCE
Conversion Factors: Opal Diffuser, cu x 0.8; Clear Shielding, cu x 1.0.

White Reflector Cone (WH)

Quick Calculator



This quick calculator chart determines the number and spacing of 1 lt.- 42W PL-T units with Fresnel Lens and White Cone for any level of illumination. Conversion factors: Opal diffuser, fc x 0.8; Clear Shielding, fc x 1.0.

Spacing Ratio = 1.2

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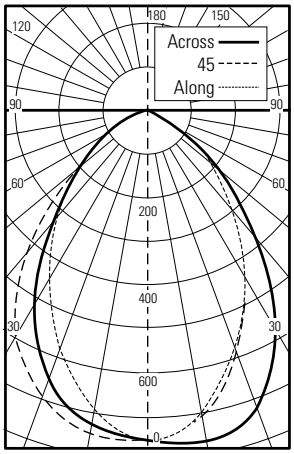
COMPUTED BY LSI PROGRAM **TEST-LITE**
CALCULITE 7 3/16" DIAMETER RECESSED FLUORESCENT LENSED DOWNLIGHT
SEMI-SPECULAR REFLECTOR WITH WHITE CONE AND FRESNEL LENS
LUMEN RATING = 3200 LMS. 1-42W PL-T LAMP



**** EFFICIENCY =39.3%** **

	CANDLEPOWER						
ANGLE	ALONG	22.5	45	67.5	ACROSS	LUMENS	
0	753	753	753	753	753		
5	740	727	739	753	765	35	
10	700	679	712	746	774		
15	643	612	660	712	757	95	
20	377	532	591	656	718		
25	514	460	517	585	660	124	
30	448	394	444	506	581		
35	382	342	376	422	486	124	
40	314	294	312	341	387		
45	249	243	252	269	295	101	
50	188	190	197	209	223		
55	134	139	144	156	163	66	
60	90	94	98	104	109		
65	59	62	64	67	68	34	
70	43	47	42	48	48		
75	30	33	33	33	34	17	
80	17	20	20	20	21		
85	5	7	7	7	7	5	
90	0	0	0	0	0		

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	531	16.60	42.26
0-40	802	25.07	63.82
0-60	1150	35.96	91.55
0-90	1256	39.23	100.00
40-90	454	14.21	36.18
60-90	106	3.32	8.45
90-180	0	.00	.00
0-180	1256	39.28	100.00

Coefficients Of Utilization

% EFFECTIVE CEILING CAVITY REFLECTANCE

	80			70			50			30			10			0
	% WALL REFLECTANCE															
ROOM CAVITY RATIO	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
1	.43	.41	.40	.42	.41	.40	.40	.39	.39	.39	.38	.37	.37	.37	.36	.36
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3	.35	.33	.31	.35	.33	.31	.34	.32	.31	.33	.31	.30	.32	.31	.30	.29
4	.33	.30	.28	.32	.30	.28	.31	.29	.28	.30	.29	.27	.27	.28	.27	.26
5	.30	.27	.26	.30	.27	.25	.29	.26	.25	.28	.26	.25	.27	.26	.24	.24
6	.27	.25	.33	.27	.24	.23	.26	.24	.22	.26	.24	.22	.25	.23	.22	.21
7	.25	.22	.20	.25	.22	.20	.24	.22	.20.	.24	.22	.20.	23	.21	.20	.19
8	.23	.20	.18	.23	.20	.18	.22	.20	.18	.22	.20	.18	.22	.20	.18	.17
9	.21	.19	.17	.21	.18	.17	.21	.18	.16	.20	.18	.16	.20	.18	.26	.16
10	.20	.17	.15	.19	.17	.15	.19	.17	.15	.19	.16	.15	.18	.16	.15	.14

20% FLOOR CAVITY REFLECTANCE
Conversion Factors: Opal Diffuser, cu x 0.8; Clear Shielding, cu x 1.0.

Job Information **Type:**

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